Technical Bulletin

Bulletin No: TCH-003-027 **Effective Date: 10/17/2011** **Cancels: PRO-03-27-A dated 4/15/87** **Page: 1 of 1**

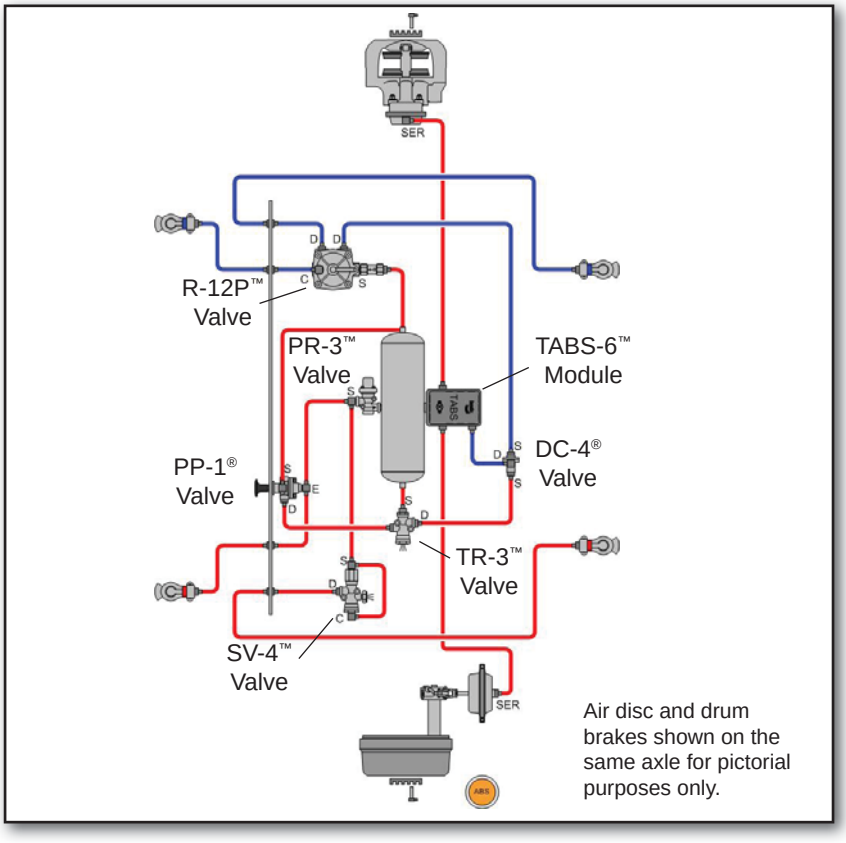
Subject: BENDIX® SV-4™ SYNCHRO VALVE & VENTED CUT-OUT COCK PURPOSE AND FUNCTION

This bulletin outlines the purpose and function of the Bendix® SV-4™ synchro valve (piece number 109149) in converter dolly air systems and the vented cut-out cocks in towing trailer brake systems.

Synchronizing Valve

While the synchronizing valve is not required by any regulations, Bendix Commercial Vehicle Systems LLC (Bendix) has traditionally recommended its use on the converter dolly for the following functions:

- To prevent an automatic application of towing trailer and dolly emergency brakes in the event a breakaway occurs between the dolly and towed trailer. In this instance, the Bendix SV-4 synchro valve acts as a shut-off valve.
- Vent air pressure from false charging (service air parking brake release via anti-compounding) on the second trailer in the event the supply line cut-out cock on the towing trailer is mistakenly closed.
- Assure sufficient service air pressure for braking is present in the dolly reservoir before permitting supply air to enter the second trailer.
- Enable faster park and emergency brake applications by locally exhausting air. In this instance, the Bendix SV-4 synchro valve acts as a quick release valve.
- The SV-4 synchro valve only – protects towed vehicles from pressure loss when the forward systems leak air.



Vented Cut-out Cock

In addition to the synchronizing valve on the dolly, Bendix recommends the use of cut-out cocks with a vented delivery on towing trailers. Vented cut-out cocks–such as Bendix part number 106118–are also key to preventing false charging situations. These situations may lead to brake drag when dollies without an SV-4 valve installed or Bendix® PP-1® dolly valves are operated after it is connected.

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